

## EAST Search History

| Ref # | Hits | Search Query  | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--|------------------|---------|---------------------|
|       |      | (personaliz\$5 with ((smart near2 card) or (credit near2 card)) | US-PGPUB;<br>USPAT                                 | OR               | ON      | 2007/12/27<br>17:53 |
|       |      | S77 and input\$   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2007/12/27<br>16:05 |
| L1    | 1    | ("20040210566").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2008/11/16<br>16:39 |
| L2    | 0    | 1 and (without near3 user near3 instruction)                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2008/11/16<br>16:43 |
| L3    | 0    | 1 and (without near3 user)                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2008/11/16<br>16:43 |
| L4    | 1    | 1 and (without)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2008/11/16<br>16:43 |
| L5    | 1    | 1 and independen\$7   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2008/11/16<br>18:45 |
| L6    | 1    | (US-6014748-\$).did.  | USPAT  | OR               | OFF     | 2008/11/16<br>18:57 |
| L7    | 1    | (US-6070147-\$).did.  | USPAT  | OR               | OFF     | 2008/11/16<br>18:57 |
| L8    | 1    | ("5884289").PN.   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2008/11/16<br>18:58 |
| L9    | 3    | 6 7 8   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2008/11/16<br>18:58 |
| L10   | 1    | 9 and (independent\$5 or (user near2 interaction))              | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR               | OFF     | 2008/11/16<br>18:58 |
| L11   | 0    | 9 and (user near2 (interact \$3 or instruct\$4))                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR               | ON      | 2008/11/16<br>18:59 |

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|-----|------|--|--|----|-----|---------------------|
| L12 | 3    | 9 and user   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/11/16<br>18:59 |
| L13 | 0    | 9 and ((automatic\$4 or<br>automat\$4) with user)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/11/16<br>19:00 |
| L14 | 3    | 9 and (automatic\$4 or<br>automat\$4)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/11/16<br>19:00 |
| L15 | 446  | "6029195"  | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2008/11/16<br>19:18 |
| L16 | 18   | ((provid\$3 or present\$3 or<br>select\$3 or choos\$3) with<br>quer\$3) and ((receiv\$3 or<br>transmit\$3 or send\$3) with<br>(respons\$3 or selection\$1))<br>and (generat\$3 and<br>(personali\$3 with (file\$1 or<br>table\$1))) and (smart with<br>card\$1) and personal\$7 and<br>table\$1 and account\$1 and<br>user\$1  | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2008/11/16<br>19:18 |
| L17 | 1    | ("6070147").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2008/11/16<br>19:18 |
| L18 | 1    | L17 and (quer\$3 or question<br>\$)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2008/11/16<br>19:18 |
| L19 | 46   | ((provid\$3 or present\$3 or<br>select\$3 or choos\$3) with<br>quer\$3) and ((receiv\$3 or<br>transmit\$3 or send\$3) with<br>(respons\$3 or selection\$1))<br>and ((generat\$3 or creat\$3<br>or produc\$3) same<br>(personal\$7 with (file\$1 or<br>table\$1))) and (smart with<br>card\$1) and personal\$7 and<br>table\$1 and account\$1 and<br>user\$1 and profile\$1 and<br>match\$3 | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2008/11/16<br>19:18 |
| L20 | 2908 | ((credit or debit) with card)<br>with feature  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2008/11/16<br>19:18 |
| L21 | 1545 | L20 and @ad<"20030421"   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2008/11/16<br>19:18 |
| L22 | 103  | L21 and ((risk or fraud or<br>theft) with manag\$5)  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2008/11/16<br>19:18 |

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| L23 | 21   | L22 and ((low\$2 or small or minimum) with payment)  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2008/11/16<br>19:18 |
| L24 | 592  | "smart card" same quer\$   | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2008/11/16<br>19:19 |
| L25 | 47   | L24 and ((select\$3 or provid\$3 or present\$3) with quer\$3) and table\$1   | USPAT  | OR | OFF | 2008/11/16<br>19:19 |
| L26 | 103  | L21 and ((risk or fraud or theft) with manag\$5)   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2008/11/16<br>19:19 |
| L27 | 1    | 9 and default  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/11/16<br>19:26 |
| L28 | 1    | 1 and default  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/11/16<br>19:44 |
| L29 | 1    | 9 and (assum\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/11/16<br>19:47 |
| L30 | 0    | 9 and (user with (specif\$6 or option\$4))   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/11/16<br>19:48 |
| L31 | 3    | 9 and (specif\$6 or option\$4)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/11/16<br>19:48 |
| S2  | 0    | ("200402105866").PN.   | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/01/24<br>13:00 |
| S3  | 1    | ("20040210566").PN.  | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/01/24<br>13:00 |
| S4  | 1    | S3 and "look up table"   | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/01/24<br>13:04 |
| S5  | 1    | S3 and feature\$1  | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/01/24<br>13:09 |
| S6  | 1062 | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and (smart with card\$1) and personal\$7   | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/01/24<br>13:28 |
| S7  | 562  | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and (smart with card\$1) and personal\$7 and table\$1 and account\$1             | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/01/24<br>13:29 |
| S8  | 556  | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and (smart with card\$1) and personal\$7 and table\$1 and account\$1 and user\$1 | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/01/24<br>13:29 |

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| S9  | 419 | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and ((receiv\$3 or transmit\$3 or send\$3) with (respons\$3 or selection\$1)) and (smart with card\$1) and personal\$7 and table\$1 and account\$1 and user\$1   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>13:33 |
| S10 | 8   | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and ((receiv\$3 or transmit\$3 or send\$3) with (respons\$3 or selection\$1)) and (generat\$3 and (personali\$3 with (file\$1 or table\$1))) and (smart with card\$1) and personal\$7 and table\$1 and account\$1 and user\$1  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>13:35 |
| S11 | 8   | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and ((receiv\$3 or transmit\$3 or send\$3) with (respons\$3 or selection\$1)) and ((generat\$3 or creat\$3 or produc\$3) and (personali\$3 with (file\$1 or table\$1))) and (smart with card\$1) and personal\$7 and table\$1 and account\$1 and user\$1               | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>13:37 |
| S12 | 64  | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and ((receiv\$3 or transmit\$3 or send\$3) with (respons\$3 or selection\$1)) and ((generat\$3 or creat\$3 or produc\$3) and (personal\$7 with (file\$1 or table\$1))) and (smart with card\$1) and personal\$7 and table\$1 and account\$1 and user\$1                | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>13:38 |
| S13 | 55  | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and ((receiv\$3 or transmit\$3 or send\$3) with (respons\$3 or selection\$1)) and ((generat\$3 or creat\$3 or produc\$3) and (personal\$7 with (file\$1 or table\$1))) and (smart with card\$1) and personal\$7 and table\$1 and account\$1 and user\$1 and profile\$1 | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>13:40 |

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| S14 | 49     | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and ((receiv\$3 or transmit\$3 or send\$3) with (respons\$3 or selection\$1)) and ((generat\$3 or creat\$3 or produc\$3) and (personal\$7 with (file\$1 or table\$1))) and (smart with card\$1) and personal\$7 and table\$1 and account\$1 and user\$1 and profile\$1 and match\$3  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>13:43 |
| S15 | 23     | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and ((receiv\$3 or transmit\$3 or send\$3) with (respons\$3 or selection\$1)) and ((generat\$3 or creat\$3 or produc\$3) same (personal\$7 with (file\$1 or table\$1))) and (smart with card\$1) and personal\$7 and table\$1 and account\$1 and user\$1 and profile\$1 and match\$3 | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>13:48 |
| S16 | 345    | "smart card" same quer\$   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>16:29 |
| S17 | 106956 | quer\$   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>13:49 |
| S18 | 14     | ("6014748").URPN.  | USPAT                     | OR | OFF | 2006/01/24<br>15:03 |
| S19 | 7      | ("6196459").URPN.  | USPAT                     | OR | OFF | 2006/01/24<br>14:58 |
| S20 | 133    | S16 and quer\$3  | USPAT                     | OR | OFF | 2006/01/24<br>15:03 |
| S21 | 64     | S16 and quer\$3 and table\$1   | USPAT                     | OR | OFF | 2006/01/24<br>15:06 |
| S22 | 30     | S16 and ((select\$3 or provid\$3 or present\$3) with quer\$3) and table\$1   | USPAT                     | OR | OFF | 2006/01/24<br>15:28 |
| S23 | 193    | ("6029195").URPN.  | USPAT                     | OR | OFF | 2006/01/24<br>15:18 |
| S24 | 3      | S23 and "smart cards"  | USPAT                     | OR | OFF | 2006/01/24<br>15:18 |
| S25 | 2      | S23 and "smart cards" and quer\$3  | USPAT                     | OR | OFF | 2006/01/24<br>15:19 |
| S26 | 2      | S23 and "smart cards" and quer\$3 and table\$1   | USPAT                     | OR | OFF | 2006/01/24<br>15:19 |
| S27 | 20     | S16 and ((select\$3 or provid\$3 or present\$3) with quer\$3) and table\$1 and (personali\$4 or customiz\$3)   | USPAT                     | OR | OFF | 2006/01/24<br>15:29 |

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| S28 | 207  | "6029195"  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>16:23 |
| S29 | 1    | ("6029195").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>16:25 |
| S30 | 1303 | ((select\$3 or choos\$3 or<br>chos\$3) with quer\$3) and<br>account\$1 and personal\$7<br>and (match\$3 same (table<br>\$1 or attribute\$1)) | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>16:32 |
| S31 | 25   | S16 and S30  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>16:49 |
| S32 | 2087 | "identification card" &<br>database  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>16:51 |
| S33 | 428  | "identification card" same<br>database   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>16:51 |
| S34 | 154  | S33 & quer\$   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>16:51 |
| S35 | 1    | ("20040078227").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>17:22 |
| S36 | 1    | ("6263330").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>17:51 |
| S37 | 1    | ("6729549").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>17:39 |
| S38 | 1    | ("6014748").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/24<br>17:51 |
| S39 | 1    | ("20040210566").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>09:51 |
| S40 | 1    | S39 and table  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>09:51 |
| S41 | 1    | S39 and table\$1   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>09:51 |
| S42 | 1    | ("20040078227").PN.  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>09:51 |
| S43 | 1    | S42 and table\$1   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>10:29 |
| S44 | 1    | S42 and threshold\$1   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>10:37 |
| S45 | 1    | S42 and account\$1   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>10:37 |
| S46 | 1    | S42 and (account\$1 or<br>manag\$n or risk\$n)   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>10:40 |
| S47 | 1    | S39 and "account risk"   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>11:09 |
| S48 | 0    | S39 and "best practice<br>recommendations"   | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>11:10 |
| S49 | 0    | S39 and "best practice<br>recommendation"  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>11:10 |
| S50 | 1    | S39 and "best practices<br>recommendations"  | US-PGPUB;<br>USPAT; USOCR | OR | OFF | 2006/01/26<br>11:18 |

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|-----|---|---|--|----|-----|---------------------|
| S51 | 1 | S42 and recommendation\$1                                     | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/01/26<br>12:54 |
| S52 | 0 | S42 and mandatory   | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/01/26<br>12:54 |
| S53 | 1 | "20040210566"   | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/08/21<br>15:09 |
| S54 | 0 | S53 and "high-level smart<br>card management<br>instructions" | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2006/08/21<br>15:10 |
| S55 | 0 | S53 and "high-level smart<br>card management"                 | US-PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2006/08/21<br>15:10 |
| S56 | 0 | S53 and "high-level smart<br>card management"                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/21<br>15:10 |
| S57 | 0 | S53 and "high-level"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/21<br>15:11 |
| S58 | 1 | S53 and (high with level)                                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/21<br>15:32 |
| S59 | 0 | S53 and (high with level<br>with instruction)                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/21<br>15:11 |
| S60 | 0 | S53 and (high with level<br>with management)                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/21<br>15:11 |
| S61 | 1 | S53 and (smart with card<br>with features)                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/21<br>15:32 |
| S62 | 1 | ("6014748").PN.   | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/08/21<br>15:43 |
| S63 | 1 | S62 and feature   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/21<br>15:44 |
| S64 | 1 | S62 and (smart with card<br>with feature)                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/21<br>15:50 |
| S65 | 1 | S62 and (high with level)                                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/21<br>15:53 |

|     |   |                                     |  |    |     |                     |
|-----|---|-------------------------------------|--|----|-----|---------------------|
| S66 | 0 | S53 and "which smart card"          | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/21<br>15:53 |
| S67 | 1 | ("6014748").PN.                     | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/08/22<br>10:32 |
| S68 | 1 | ("6014748").PN.                     | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/08/22<br>14:21 |
| S69 | 0 | S68 and (assistant with tool)       | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/22<br>14:22 |
| S70 | 0 | S68 and (personalization with tool) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/22<br>14:24 |
| S71 | 0 | S68 and (member with profile)       | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/22<br>14:24 |
| S72 | 1 | S68 and profile                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/22<br>14:24 |
| S73 | 1 | ("20040078227").PN.                 | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2006/08/22<br>14:29 |
| S74 | 0 | S73 and (software with tool)        | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2006/08/22<br>14:29 |
| S75 | 1 | S73 and software                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2006/08/22<br>14:34 |
| S76 | 1 | S73 and match\$3                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/08/22<br>14:34 |
| S77 | 1 | ("20040210566").PN.                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2006/11/21<br>10:44 |
| S78 | 1 | S77 and template                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2006/11/21<br>10:44 |
| S79 | 1 | S77 and record                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/11/21<br>10:46 |



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|-----|---|-------------------------------------|--|----|-----|---------------------|
| S80 | 1 | S77 and choice                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/11/21<br>10:48 |
| S81 | 1 | S77 and input\$5                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/11/21<br>10:49 |
| S82 | 1 | S77 and (input\$5 with<br>response) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/11/21<br>10:50 |
| S83 | 0 | S77 and deriv\$3                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/11/21<br>10:50 |
| S84 | 0 | S77 and derived                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/11/21<br>10:50 |
| S85 | 1 | ("20040210566").PN.                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2006/11/25<br>14:57 |
| S86 | 1 | S85 and information                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2006/11/25<br>15:09 |
| S87 | 1 | S85 and input\$4                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/11/25<br>15:12 |
| S88 | 1 | S85 and person                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/11/25<br>15:19 |
| S89 | 0 | S85 and deriv\$4                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2006/11/25<br>15:19 |
| S90 | 1 | ("5867821").PN.                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/21<br>18:25 |
| S91 | 1 | S90 and quer\$3                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/21<br>18:26 |
| S92 | 1 | S90 and question\$                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/21<br>18:27 |

|      |   |                                  |   |    |     |                     |
|------|---|----------------------------------|---|----|-----|---------------------|
| S93  | 1 | S90 and card                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB        | OR | ON  | 2007/03/21<br>18:27 |
| S94  | 1 | ("6195651").PN.                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB        | OR | OFF | 2007/03/21<br>18:30 |
| S95  | 1 | (US-6012049-\$).did.             | USPAT   | OR | OFF | 2007/03/22<br>10:16 |
| S96  | 1 | S95 and (quer\$3 or question\$)  | USPAT   | OR | OFF | 2007/03/22<br>10:19 |
| S97  | 1 | (US-6196459-\$).did.             | USPAT   | OR | OFF | 2007/03/22<br>10:19 |
| S98  | 1 | S97 and (quer\$3 or question\$)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/03/22<br>10:19 |
| S99  | 1 | ("6195651").PN.                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB        | OR | OFF | 2007/03/22<br>11:22 |
| S100 | 1 | ("6729549").PN.                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB        | OR | OFF | 2007/03/22<br>11:25 |
| S101 | 1 | ("6263330").PN.                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB        | OR | OFF | 2007/03/22<br>11:45 |
| S102 | 1 | ("5867821").PN.                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB        | OR | OFF | 2007/03/22<br>11:46 |
| S103 | 1 | (US-5867821-\$).did.             | USPAT   | OR | OFF | 2007/03/22<br>11:49 |
| S104 | 1 | S103 and quer\$3                 | USPAT   | OR | ON  | 2007/03/22<br>11:51 |
| S105 | 1 | S103 and question\$5             | USPAT   | OR | ON  | 2007/03/22<br>11:54 |
| S106 | 1 | S103 and card                    | USPAT   | OR | ON  | 2007/03/22<br>11:57 |
| S107 | 1 | ("6070147").PN.                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB        | OR | OFF | 2007/03/22<br>13:15 |
| S108 | 1 | S107 and (quer\$3 or question\$) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB        | OR | OFF | 2007/03/22<br>13:15 |

|      |   |                                    |  |    |     |                     |
|------|---|------------------------------------|--|----|-----|---------------------|
| S109 | 1 | S107 and (quer\$3 or question\$)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/22<br>14:11 |
| S110 | 1 | S107 and (smart with card)         | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/22<br>15:11 |
| S111 | 1 | S107 and (card)                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/22<br>14:11 |
| S112 | 0 | S107 and table                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/22<br>15:12 |
| S113 | 0 | S107 and look\$1up                 | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/22<br>15:12 |
| S114 | 1 | S107 and look\$                    | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/22<br>15:32 |
| S115 | 1 | S107 and (output\$4 or display\$3) | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/22<br>15:32 |
| S116 | 1 | ("20050240615").PN.                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/26<br>09:46 |
| S117 | 1 | S116 and storage                   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/26<br>11:22 |
| S118 | 1 | ("20030217033").PN.                | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/03/26<br>11:22 |
| S119 | 0 | S118 and co\$1rrelat\$3            | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/26<br>11:23 |
| S120 | 1 | S118 and relat\$5                  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/03/26<br>11:24 |

|      |     |  |  |    |     |                     |
|------|-----|--|--|----|-----|---------------------|
| S121 | 15  | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and ((receiv\$3 or transmit\$3 or send\$3) with (respons\$3 or selection\$1)) and (generat\$3 and (personali\$3 with (file\$1 or table\$1))) and (smart with card\$1) and personal\$7 and table\$1 and account\$1 and user\$1  | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2007/08/22<br>14:52 |
| S122 | 38  | ((provid\$3 or present\$3 or select\$3 or choos\$3) with quer\$3) and ((receiv\$3 or transmit\$3 or send\$3) with (respons\$3 or selection\$1)) and ((generat\$3 or creat\$3 or produc\$3) same (personal\$7 with (file\$1 or table\$1))) and (smart with card\$1) and personal\$7 and table\$1 and account\$1 and user\$1 and profile\$1 and match\$3 | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2007/08/23<br>14:57 |
| S123 | 357 | personaliz\$5 with (credit near2 card)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/12/27<br>16:05 |
| S124 | 208 | S123 and @ad<"20030421"  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/12/27<br>16:06 |
| S125 | 26  | S124 and ((quer\$3 or question) with user)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/12/27<br>16:08 |
| S126 | 1   | ("20040210566").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/12/27<br>16:53 |
| S127 | 1   | S126 and (account with usage)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/12/27<br>16:55 |
| S128 | 1   | S126 and (authorization with control)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/12/27<br>16:55 |
| S129 | 1   | S126 and (authorization with control)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/12/27<br>16:59 |

|      |     |   |  |    |     |                     |
|------|-----|---|--|----|-----|---------------------|
| S130 | 1   | S126 and (low\$1value with payment)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/12/27<br>17:00 |
| S131 | 6   | (US-20040078227-\$).did. or<br>(US-6196459-\$ or US-<br>6014748-\$ or US-6012049-<br>\$ or US-6729549-\$ or US-<br>6070147-\$).did. | US-PGPUB;<br>USPAT                                 | OR | OFF | 2007/12/27<br>17:16 |
| S132 | 0   | S131 and emv  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:17 |
| S133 | 20  | vsdc  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:17 |
| S134 | 7   | S133 and (smart with card)  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:17 |
| S135 | 3   | S134 and @ad<"20030421"   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:22 |
| S136 | 254 | emv and (smart with card)   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:33 |
| S137 | 122 | S136 and @ad<"20030421"   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:34 |
| S138 | 40  | S137 and personaliz\$5  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:34 |
| S139 | 10  | S137 and (personaliz\$5<br>with (smart near2 card))   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:52 |
| S140 | 1   | (US-6367011-\$).did.  | USPAT  | OR | OFF | 2007/12/27<br>17:26 |
| S141 | 0   | S140 and (account with<br>usage)  | USPAT  | OR | ON  | 2007/12/27<br>17:26 |
| S142 | 0   | S140 and (account with<br>use)  | USPAT  | OR | ON  | 2007/12/27<br>17:26 |
| S143 | 3   | S139 and query  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:34 |
| S144 | 275 | emv and ((smart with card)<br>or (credit near2 card))   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:33 |
| S145 | 102 | S144 and personaliz\$5  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:34 |
| S146 | 41  | S145 and @ad<"20030421"   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:58 |
| S147 | 17  | S146 and query  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:34 |
| S148 | 14  | S147 not S143   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:46 |
| S149 | 1   | S148 and (account with<br>(use or usage))   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:47 |
| S150 | 2   | S146 and (account with<br>(use or usage))   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:54 |
| S151 | 59  | S144 and (account with<br>(use or usage))   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>17:48 |

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|------|-------|--|--------------------|----|----|---------------------|
| S152 | 19    | S144 and (account near3 (use or usage))  | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>17:48 |
| S153 | 4     | S152 and ((risk or fraud or thef) with (manag\$3 or management))   | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>17:55 |
| S154 | 4     | S152 and ((risk or fraud or theft) with (manag\$3 or management))  | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>17:49 |
| S155 | 880   | (personaliz\$5 with ((smart near2 card) or (credit near2 card)))   | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>17:58 |
| S156 | 420   | S155 and @ad<"20030421"  | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>18:31 |
| S157 | 26    | S156 and (account with (use or usage))   | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>17:59 |
| S158 | 6     | S157 and ((risk or fraud or thef) with (manag\$3 or management))   | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>17:55 |
| S159 | 6     | S157 and ((risk or fraud or theft) with (manag\$3 or management))  | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>17:55 |
| S160 | 75492 | ((smart near2 card) or (credit near2 card) or (debit near2 card))  | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>17:59 |
| S161 | 43492 | S160 and @ad<"20030421"  | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>17:59 |
| S162 | 706   | S161 and (card with (account with (use or usage)))   | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>18:00 |
| S163 | 141   | S162 and (((authoriz\$5 or verif\$6) near2 control\$4) or ((risk or fraud or theft) near2 (manag\$3 or control \$4 or management or check \$3)))           | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>18:04 |
| S164 | 40    | S162 and (card with (((authoriz\$5 or verif\$6) near2 control\$4) or ((risk or fraud or theft) near2 (manag\$3 or control\$4 or management or check\$3)))) | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>18:14 |
| S165 | 0     | S164 and (low\$1value with payment)  | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>18:17 |
| S166 | 1     | S164 and (low with payment)  | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>18:17 |
| S167 | 0     | S164 and vlp   | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>18:16 |
| S168 | 0     | S163 and (low\$1value with payment)  | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>18:25 |
| S169 | 6     | S163 and (low with payment)  | US-PGPUB;<br>USPAT | OR | ON | 2007/12/27<br>18:25 |

|      |      |  |  |    |     |                     |
|------|------|--|--|----|-----|---------------------|
| S170 | 27   | (low\$1value with payment)                           | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:25 |
| S171 | 4    | (card with (low\$1value with payment))               | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:27 |
| S172 | 2    | S171 and @ad<"20030421"                              | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:26 |
| S173 | 0    | (card with (visa with low\$1value with payment))     | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:27 |
| S174 | 1    | (visa with low\$1value with payment)                 | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:28 |
| S175 | 1474 | vlp  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:29 |
| S176 | 5    | S175 and "smart card"                                | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:30 |
| S177 | 2508 | ((credit or debit) with card) with feature           | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:30 |
| S178 | 1499 | S177 and @ad<"20030421"                              | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:31 |
| S179 | 99   | S178 and ((risk or fraud or theft) with manag\$5)    | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:32 |
| S180 | 98   | S179 and ((low\$2 or small or minimum) or payment)   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>18:34 |
| S181 | 20   | S179 and ((low\$2 or small or minimum) with payment) | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>19:08 |
| S182 | 1    | ("5884289").PN.                                      | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/12/27<br>19:09 |
| S183 | 0    | S182 and payment                                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2007/12/27<br>19:09 |
| S184 | 0    | S182 and payment                                     | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2007/12/27<br>19:09 |
| S185 | 1    | (US-6014748-\$).did.                                 | USPAT  | OR | OFF | 2007/12/27<br>19:09 |
| S186 | 0    | S185 and payment                                     | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>19:10 |
| S187 | 1    | (US-6070147-\$).did.                                 | USPAT  | OR | OFF | 2007/12/27<br>19:10 |
| S188 | 1    | S187 and payment                                     | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>19:21 |
| S189 | 1    | S187 and account                                     | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>19:22 |
| S190 | 0    | S187 and risk  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>19:22 |

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|------|-----|--|--|----|-----|---------------------|
| S191 | 0   | S187 and authoriz\$5   | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>19:22 |
| S192 | 1   | S187 and verificat\$5  | US-PGPUB;<br>USPAT                                 | OR | ON  | 2007/12/27<br>19:22 |
| S193 | 1   | (US-6014748-\$).did.   | USPAT  | OR | OFF | 2008/06/23<br>16:20 |
| S194 | 1   | S193 and (card near1<br>issuer)  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/06/23<br>16:20 |
| S195 | 1   | (US-6070147-\$).did.   | USPAT  | OR | OFF | 2008/06/23<br>16:40 |
| S196 | 0   | S195 and issuer  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2008/06/23<br>16:40 |
| S197 | 0   | S195 and issuer  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/06/23<br>16:40 |
| S198 | 1   | S195 and issu\$3   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/06/23<br>16:40 |
| S199 | 1   | ("5884289").PN.  | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | OFF | 2008/06/25<br>11:23 |
| S200 | 1   | S199 and issu\$4   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/06/25<br>11:38 |
| S201 | 1   | S199 and (issu\$4 with card)   | US-PGPUB;<br>USPAT; USOCR;<br>EPO; JPO;<br>IBM_TDB | OR | ON  | 2008/06/25<br>11:39 |
| S202 | 557 | "smart card" same quer\$   | US-PGPUB;<br>USPAT; USOCR                          | OR | OFF | 2008/06/25<br>16:56 |
| S203 | 33  | S202 and ((select\$3 or<br>provid\$3 or present\$3) with<br>quer\$3) and table\$1 and<br>(personali\$4 or customiz\$3) | USPAT  | OR | OFF | 2008/06/25<br>16:56 |
| S204 | 44  | S202 and ((select\$3 or<br>provid\$3 or present\$3) with<br>quer\$3) and table\$1                                      | USPAT  | OR | OFF | 2008/06/25<br>16:57 |

11/16/2008 8:01:54 PM

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